



NOAA Aviation Safety Program

NOAA Aviation Safety Board Meeting
May 16, 2006

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May 16, 2006 ASB Meeting Water Survival Training



Currently there are two types of Egress trainers

- Full Cockpit – can hold up to 10 people
 - 10 Available throughout continental United States
- PVC Pipe Frame – 4 persons maximum
 - Can be assembled at any location
 - Numerous vendors available



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- Full Cockpit – can hold up to 10 people





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- PVC Pipe Frame – 4 persons maximum





May 16, 2006 ASB Meeting Training Requirements



Aviation Safety Training						
Training Method		NOAA E-Learning		Egress Video	Classroom and Hands-on	Classroom and Hands-on
Training Frequency		annual	annual	annual	once every 5 years	one time
Flight Purpose and Environmental Conditions	Personnel	NOAA Aviation Policy and Procedures	Basic Aviation Safety and Survival	Water Ditching, Safety and Survival		Aviation Safety and Cold Weather Survival
Mission Operations over land	NOAA	√	√			
	Non-NOAA		√			
Mission Operations over water	NOAA	√	√	√	√	
	Non-NOAA		√	√	√	
Mission Operations in cold weather (<32F air temp)	NOAA	√	√			√
	Non-NOAA		√			√

Note: NOAA Personnel may request more frequent training than what is listed above



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Aviation Life Support Equipment (ALSE) required to be carried in the aircraft or worn by personnel				
Flight Purpose and Environmental Conditions	Life Raft of sufficient capacity for all aircraft occupants	Personal Floatation Device (PFD) (Life Vest)	Personal Emergency Locator Transmitter	Anti- Exposure Suit
Mission Operations overwater	√	√	√	
Mission Operations over cold water (<59F water temp and/or <32F air temp)	√	√	√	√



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Proposed “Limited Flight” Standard



Designation based on overall exposure to risk in those situations where the requesting personnel would require no more than two flights, the “Limited Flight” designation could be granted allowing the individual to meet the same requirements as an “observer” under the Aviation Safety Policy

Could be issued for:

- Round-trip float plane transportation to ship
- Round-trip transportation to oil rig for “One time” weather service station maintenance

NOTE: Observers are required to be:

- Medically screened
- Issued Aviation Life Support equipment (ALSE)
- Provided a pre-flight brief from a member of the flight crew



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Subjects to be covered

- Basic survival swimming skills
- Emergency landings
- Crash survival
- Ditching at sea
- Emergency egress
- Survivor Emergency First-Aid
- Survival vest
- Utilization of life preservers
- Utilization of flares & signaling devices
- Operation of personal locator beacons
- Survival in open water
- Hypothermia prevention
- Utilization of signal mirrors
- Utilization of Survival radios
- Utilization of dye markers
- Utilization of life rafts and contents



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Additional Environmental Considerations



Additional subjects to be covered for cold water survival

- Anti-exposure systems
- Cold water survival skills



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Minimum training standards for cold weather survival (land)

- Survival psychology
- Clothing & footwear requirements
- Cold weather injuries
- Winter shelters
- Water location
- Snowmelting devices
- Cold weather survival kits
- Signaling methods
- Using aircraft and equipment as tools for survival
- Animal predators
- Firemaking skills
- Food Requirements for cold weather
- Priorities in a cold environment
- Travel considerations
- Avalanche Hazards



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Decision Point

(See handout)



NOAA Aviation Safety

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